

GROZNYI, YU. F.

Dizel'nyi traktor DT-54. (Vestn. Mash. 1951, no. 1, p. 24)

DT-54 Diesel tractor.

DLC: TN4.V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

GROZNYKH, V.N.

Clinical results of tympanoplasty by the use of a free skin flap. Trudy Izhev.gos.med.inst, 21:220-224 '64.

(MIRA 1981)

1. Kafedra bolezney ukha, goria i nosa (zav. - prof. I.V. Gol'dfarb) Izhevskogo meditsinskogo instituta.

1. GROZNYY, YU. B.
2. USSR (600)
4. Metalwork
7. Results of consultations among tractor plants on the saving of metal. Vest mash
No 11 1952.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

GAYSIN, B.M.; GROZOV, D.P.; MARKARYAN, R.L.

New refractory mixture for the lining of electric arc furnace
walls. Lit. proizv. no. 6239 Je '63. (MIRA 16-7)

(Refractory materials)

GAYSIN, B.M.; GROZOV, D.P.; KOVSHOV, V.M.

Heat insulating perlite shells for riser heads on steel castings.
Lit. proizv. no.10:38 0 '63. (MIRA 16:12)

GROZOV, Konstantin Petrovich [Grozov, K.]; DANILENKO, Ivan Yakovlevich
KISEL'GOF, Zinoviy Sergeyevich [Kisel'hof, Z.], zasluzhennyj
mekhanizator sel'skogo khozyaystva USSR; VINITSKIY, S., red.;
MOLCHANOVА, T., tekhn.red.

[What we learned from widespread practices] Shcho pokazav
masovyj dosvid. Odessa, Odes'ka knyzhkova vyd-vo, 1960. 24 p.
(MIRA 14:1)

1. Kolkhoz imeni Lenina Artaisskogo rayona (for Grozov).
2. Kolkhoz imeni Lenina Starokazatskogo rayona (for Danilenko).
3. Glavnnyy inzhener Odesskogo oblastnogo upravleniya sel'skim
khozyaystvom (for Kisel'gof).
(Farm mechanization)

SOROKIN, Aleksey Ivanovich; GROZOV, Nikolay Vasil'yevich; STEPANOV,
Aleksandr Makarovich; STAROSTIN, Yevgeniy Il'ich; CHERNYAK,
Lev Mikhaylovich; SVYATITSKAYA, K.P., vedushchiy red.;
BOKSERMAN, Yu.I., red.; YAKOVLEVA, Z.I., tekhn. red.

[Liquefied gases in England; their transportation, storage, uses]
Szhizhennye gazy v Anglii; transport, khranenie, ispol'zovanie.
Moskva, Gostoptekhizdat, 1963. 140 p. (MIRA 16:6)
(Great Britain--Liquefied petroleum gas)

SOROKIN, Aleksey Ivanovich; GROZOV, Nikolay Vasil'yevich; STEPANOV,
Aleksandr Makarovich; STAROSTIN, Yevgeniy Il'ich; CHERNYAK,
Lev Mikhaylovich; BOKSERMAN, Yu.I., red.; SVYATITSKAYA, K.P.,
ved. red.; YAKOVLEVA, Z.I., tekhn. red.

[Liquefied gases in England; their transportation, storage,
uses] Szhizhennye gazy v Anglii; transport, khranenie, is-
pol'zovanie. Moskva, Gostoptekhizdat, 1963. 140 p.
(MIRA 16:10)

(Great Britain--Liquefied petroleum gas)

BELYAYEVA, K.P.; GROZOVSKAYA, A.M.; ALEKSEYEV, I.M.; PICHUGIN, S.M.;
Prinimali uchastiye: ASTAKHOVA, G.V.; TSAREVA, Ye.G.; KORZINA, G.P.

VL-08 wash primer. Lakokras.mat.i ikh prim. no.3:23-25 '60.
(MIRA 14:4)
(Protective coatings) (Phosphoric acid)

26

CA

Evaluation of destruction of paint and lacquer coatings
and of their performance stability. S. V. Yakubovich and
A. M. Gulyayevskaya. Zurovskoye Lab. 16, R23-33(1950).
A method of photography of various types and degrees of
destruction to evaluate condition of coatings on the basis of
a 10-point system. Coating in class 10 has no visible
changes and only up to 30% loss of luster whereas in class 1
it is completely destroyed and up to 75% of the surface is
corroded. Performance characteristics are evaluated on the
basis of rapid tests of elasticity and resistance to arc lamp
and water sprays. The system is applicable to all coatings
contg oil and oleoresinous film-forming substances and used
under continental climatic conditions such as in the Moscow
region. B. Z. Kainich

С. К. С. А. И. А. А. А.

BRUDZ', V.G.; GLOBUS, R.L.; GRACHEVA, L.I.; GROZOVSKAYA, A.M.

Production of lead cyanamide and its use as a pigment in paints
and lacquers. Khim. prom. no.6:352-356 S '57. (MIRA 11:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh
reaktivov i Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy
institut - 4.

(Lead cyanamides)
(Pigments)

5(2)

SOV/63-4-3-11/31

AUTHORS: Belyayeva, K.P., Candidate of Technical Sciences, Grozovskaya, A.M.

TITLE: Phosphating Primers

PERIODICAL: Khimicheskaya nauka i promyshlennost', 1959, Vol 4, Nr 3,
pp 355-360 (USSR)

ABSTRACT: Parkerizing of metal surfaces before painting ensures a high corrosion resistance of the coating. The similarity of the crystal lattices of iron and the phosphate of iron protoxide is the base for the good adhesion [Ref 1]. Parkerizing by means of heated phosphoric salt solution is possible only in tanks and drying chambers. "Cold" parkerizing produces inferior protective coatings. Phosphating primers have been developed, therefore, which are applied together with the paint. They consist of a suspension of zinc tetraoxochromate in polyvinylbutyral and an acidic diluent which is an alcoholic solution of o-phosphoric acid. The primary alcohols reduce Cr⁶⁺ to Cr³⁺ which reacts with the free phosphoric acid forming a complex chromophosphate salt. The ratio H₃PO₄ : CrO₃ should be higher than 1.5 in order to obtain good adhesion. The optimum value is 2, the pH value of the primer is then 2.7 - 3. Pigments in the primer increase its water and corrosion

Card 1/2

Phosphating Primers

SOV/63-4-3-11/31

resistance. Lead and strontium chromes [Ref 24, 25] are stable in the acidic diluent for 18 months so that no mixing of the components before application is needed. The protective properties of the primers have been investigated by GIPI-4 [Ref 29]. They depend on the dispersion of the zinc chrome and the thickness of the applied layer. The optimum thickness is $6 - 10 \mu$. The protective effect of a parkerizing layer is shown in Figures 1 - 5. In the USSR a two-component primer VL-08 consisting of a rolled paste of aqueous zinc chrome with polyvinylbutyral is being produced. It is mixed with an acid diluent at the ratio 4 : 1. There are 5 sets of photos and 30 references, 8 of which are Soviet, 15 English, 5 German, 1 French and 1 Swiss.

Card 2/2

RUBANOVICH, G.L.; GROZOVSKAYA, A.N.

Acute appendicitis and dysentery [with summary in English]. Klin.med.
37 no.2:71-76 F '59. (MIRA 12:3)

1. Iz khirurgicheskogo i dizenteriynogo otdeleniya Demskoy zheleznodorozhnoy bol'nitny Ufimskoy zheleznoy dorogi (nach. bol'nitey S.Ye. Krasil'nikov).

(APPENDICITIS, differ. diag.

dysentery, bacillary (Rus))

(DYSENTERY, BACILLARY, differ. diag.

appendicitis (Rus))

GROZOVSKAYA, A.M.; LIVSHITS, M.L.

Systems of testing and quality evaluation of paint materials.
Lakokras.mat.i ikh prim. no.3:66-67 '62. (MIRA 15:7)
(Paint materials--Testing)

S/276/63/000/002/024/052
A052/A126

AUTHORS: Grozovskaya, A.M., and Livshits, M.L.

TITLE: Testing system and quality evaluation of paint materials

PERIODICAL: Referativnyy zhurnal, Tekhnologiya mashinostroyeniya, no. 2, 1962, 103, abstract 2B545 (Lakokrasochnye materialy i ikh primeneniye, no. 3, 1962, 66-67)

TEXT: The quality control in serial paint production consists in testing the characteristics provided for by the relevant standards and specifications. In the process of development and introduction of paint materials new and little studied additional testing is necessary of physico-chemical, mechanical, painting, protecting and decorative properties (for instance, oil paints are tested for the color and shade, degree of rubbing, covering power, drying time, film hardness, its impact and bending strength, water resistance, weather resistance, resistance to 3% NaCl solution, stability in the artificial climate box). Primers are tested additionally for viscosity at 20°C by B3-1(VZ-1) and B3-4(VZ-4) dilution percentage, dry-residue content, adhesion by the grid method, resistance of the film to

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S/276/63/000/002/024/052

A052/A126

Testing system and quality...

temperature changes, yielding to grinding and polishing, stability in moisture chamber. Primers are not tested for covering power. For outside enamels additional tests for spilling capacity covering power and stability in the artificial climate box are recommended. For enamels used for coating products intended for tropical service additional tests are recommended for stability of coatings by the "tropic I and II" cycle simulating conditions of the moist tropical climate of coastal and industrial regions. To evaluate the quality of new painting materials depending on their purpose, also tests of their chemical and thermal stability, resistance to gasoline, stability in hot water, electrotechnical properties, solidification degree of enamels etc, are carried out. GOST numbers and specifications containing descriptions of testing methods are given.

L. Kamionskiy

(Abstracter's note: Complete translation.)

Card 2/2

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617110011-3

BININA, B. N.; VASILEV, M. Ye.; GROZOVSKIY, A. L.; ILINA-MARANGIYAN, L. V.; TIKHONENKO,
M. S.
GRCZOVSKIY, A. L.

"Techniques of Dental Prosthetics," 1951.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617110011-3"

VASIL'YEV, M.Ye.; GROZOVSKIY, A.L.; IL'INA-MARKOSYAN, L.V.; TISSENBAUM, M.S.
[authors]; PEVZNER, A.M. [reviewer].

"Techniques of dental prosthesis." M.E.Vasil'ev, A.L.Grozovskii, L.V.
Il'ina-Markosian, M.S.Tissenbaum. Reviewed by A.M.Pevzner. Stomatologija
no.4:59-61 Jl-Ag '53. (MLRA 6:9)
(Teeth, Artificial) (Vasil'ev, M.E.) (Grozovskii, A.L.)

VASIL'YEV, M.Ye.; GROZOVSKIY, A.L.; IL'INA-MARKOSYAN, L.V.; TISSENBAM, M.S.; BYMIN, B.N., prof.; TSITRIN, D.N., red.; SENCHILO, K.K., tekhn.red.

[Prosthetic dentistry; a textbook for students of dentistry and prosthetic dentistry] Zuboproteznaia tekhnika; uchebnik dlja uchashchikhsia zuboprachebnykh i zubotekhnicheskikh uchilishch. Izd. 5., ispr. i dop. Moskva, Gos. izd-vo med. lit-ry, 1958. 495 p.

(MIRA 12:1)

(TEETH, ARTIFICIAL)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617110011-3

GROZOVSKIY, G., podpolkovnik

Manly profession. Voen. vest. 42 no.3:10-13 Mr '63.
(MIRA 17:1)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617110011-3"

RAPOPORT, I.; GROZOVSKIY, M.

New system for the legal registration of payment and current accounts.
Den. i kred. 12 no. 6:47-51 D '54. (MIRA 8:4)
(Banking law)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617110011-3

GROZOVSKIY, M.

The control system for inter-branch transfers. Den. i kred. 13 no.9:
26-29 S'55.

(MLRA 8:12)

(Banks and banking--Branch banks)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617110011-3"

KHLYNOV, N.; GROZOVSKIY, M.

More independence from accounting chiefs. Den. i kred. 16 no. 2:24
29 F '58. (MIREA 11:3)

(Banks and banking--Accounting)

GROZOVSKIY, M.

Converting balance items of the State Bank. Den. i kred. 18 no.10:
13-18 0 '60. (MIRA 13:10)
(Banks and banking--Accounting)

GROZOVSKIY, T.

"How to decrease expenses for automobile spare parts," Automobile, 1951.

GROZOVSKIY, T., kandidat tekhnicheskikh nauk.

New "Regulation for the maintenance and repair of automobiles."
Avt. transp. 32 no.10:4-7 0'54. (MIRA 7:12)
(Automobiles--Repairing)

GROZOVSKIY, T., kand.tekhn.nauk

Overhauling of mass produced motor vehicles should be done
exclusively by the manufacturing plants. Avt. transp. 38
no. 5:24-25 My '60. (MIRA 14:2)
(Motor vehicles--Maintenance and repair)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617110011-3

GROZOVSKIY, T. S.

Mbr., Editorial Board, Avtomobil', -cl948-.

Cand. Technical Sci.

"Repair of the GAZ-51 engine," Avtomobil', No. 3, 1948

Avtomobil', No. 2, 1948 for item #3

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617110011-3"

GROZOVSKIY, T.S.; DONSKOY, D.I.; KAGAN, D.Kh.; ISAYEV, F.P., inzhener,
redaktor; BYFEL', A.I., inzhener, redaktor katalogov i plakatov;
MATVEYEVA, Ye.N., tekhnicheskiy redaktor; MOIEL', B.I., tekhnicheskiy
redaktor.

[Repairable and spare parts for the ZIS-150 automobile; album of
desi gn] Remontiruemye i dopolnitel'no-remontnye detalii avtomobilja
ZIS-150; al'bom chertezhei. Moskva, Gos. nauchno-tekhn. izd-vo
mashinostroit. lit-ry, 1951. 137 p. (MLRA 8:1)

(Automobiles--Apparatus and supplies)

GROZOVSKIY, T.S., kand. tekhn. nauk; ROZENBERG, L.I., inzh.;
TOKAREVA, G.G., kand. tekhn. nauk, red.; LAYKHTER, E.,
tekhn. red.

[Investigating the wear of the ZIS-150 motortruck] Issledova-
nie iznosov avtomobilja ZIS-150. Pod red. G.G.Tokareva. Mo-
skva, Izd-vo M-va kommun.khoz.RSFSR, 1953. (MIRA 16:7)
(Motortrucks--Testing) (Mechanical wear)

1. SUBJECT:

PLAT. I - Procedure Handbook, Garage Service

1953 - 1

2. BOOK

Authors: SCHUMAYEV, L. A., BRUSYANTSEV, N. V., GRACHEVSKAYA, T. S.,
GROZOVSKIY, T. S., KRAMAROV, I. V., KRICHEVSKIY, S. A.,
and LEVIN, D. P.

Ref. No.: T101.09

Full Title: AUTOMOBIL' T A VOTOROSENYYE KONSTRUKCII (2nd Revised edition)

Transliterated Title: Avtotransportnyy servischnik

3. Publishing Data

Originating Agency: None

Publishing House: State Scientific and Technical Publishing House of
Literature on Machine Building

Date: 1953

No. pp.: 380

No. copies: 50,000

Editorial Staff

Editor: Afanas'yev, L. L., Cand.
Techn. Sci.

Tech. Ed.: None

Ed.-in-Chief: Broksh, V. V., Engr.

Appraisers (1st ed.):
Kefremov, V. V. and
Semeckov, F. F., Engr.

4. Text Data

Coverage: The handbook contains technical information on inspection, servicing
and repair of Soviet passenger cars, buses, trucks, and trailers.
Questions of garage planning, management, and accounting are discussed
and illustrated with numerical examples. Characteristics and specific-
ifications are given for materials and parts used in servicing and

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Title: AUTOMOBILE TRANSPORTATION HANDBOOK (Automobiles and Tractors)

Text: 0 to

Content (cont.):

air, such as fuels (gasoline, diesel fuel, and solid fuels for gas generators), lubricants, antifreezes, and so forth. Materials for auto parts and tools, their thermal treatment, allowable clearances, and tolerances in moving parts are discussed. The book also outlines basic characteristics of automobiles, commercial trucks, load-handling equipment, and describes methods of winter storage, short-distance arrangements for starting, etc.

The book may be of interest from the viewpoint of information on the general and technical management of Soviet automobile transportation.

Purpose: This handbook is prepared for engineering and technical personnel in automobile transportation.

Facilities: The handbook was revised in accordance with new publications and All-Union State Standards(GOST) and results of the work of the Central Scientific Research Institute of Automobile Transportation (TsVIIAT) and other research and design organizations. Consideration was also given to comment and suggestions expressed by the Highways Section of the All-Union Scientific Engineering and Technical Society of Machine Building(VNITCHASh).

No. Russian and Slavic References: 8(1946-52)
Available: Library of Congress

GROZOVSKIY, T.S.; NADEZHIN, B.N.; KLENNIKOV, V.M., redaktor; OTOCHEVA, M.A., redaktor; KONYASHINA, A.D., tekhnicheskiy redaktor.

The "Moskvich" automobile; driving, servicing and repair] Avtomobil' "Moskvich"; upravlenie, obsluzhivanie, remont. Izd. 2-e, perer. i dop. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1954. 258 p. (MIRA 8:4)
(Automobiles)

BROWNSTEYN, L.A.; BRUSYANTSEV, N.V.; GROZOVSKIY, L.T.; GROZOVSKIY, T.S.;
KRAMARENKO, G.V., KRICHEVSKY, V.P.; S'YEV, L.L.
kandidat tekhnicheskikh nauk; redaktor; BANOV, I. A., inzhener, re-
daktor; MODEL', B.I., tekhnicheskiy redaktor.

[Motor transport manual] Avtotransportnyi spravochnik. Izd.3-e.
ispr. i dop. Pod obshchey red. L.L. Afanas'eva. Moskva, Gos. nauchno-
tekhn. izd-vo mashinostroit. lit-ry, 1956. 739 p. (MLRA 9:5)
(Automobiles--Handbooks, manuals, etc.)(Transportation, Automotive)

GROZOVSKIY, T. S.

NAGULA, Grigoriy Yefremovich; KALISSKIY, Vladimir Sergeyevich; MANZON,
Aleksandr Isaevich; GROZOVSKIY, T.S., redaktor; MAL'KOVA, N.V.,
tekhnicheskij redaktor

[Handbook for automobile drivers of the third class] Uchebnik
shofera tret'ego klassa. Moskva, Nauchno-tehn.izd-vo avtotransp.
lit-ry, 1957. 295 p. (MLR 10:10)
(Automobile drivers)

GROZOVSKIY, T.S.

KATS, Anatoliy Moiseyevich, kand.tekhn.nauk; GROZOVSKIY, T.S., red.; KOGAN, F.L.,
tekhn.red.

[Repair of automobile bodies] Remont avtomobil'nykh kuzovov.
Izd.3-e, dop.i perer. Moskva, Nauchno-tekhn.izd-vo avtotransp.lit-ry,
1957. 367 p. (MIRA 11:1)
(Automobiles--Bodies--Maintenance and repair)

GROZOVSKIY, Timofey Samoylovich; NADEZHIN, Boris Nikolayevich; LESNIYAKOV,
F.I., red.; MAL'KOVA, N.V., tekhn. red.

["Moskvich-402" automobile; operation, service, and repair] Avto-
mobil' "Moskovich-402"; upravlenie, obsluzhivanie i remont. Moskva,
Nauchno-tekhn. izd-vo avtotransp. lit-ry, 1958. 294 p.
(Automobiles) (MIRA 11:9)

GROZOVSKIY, Timofey Samoylovich; NADEZHIN, Boris Nikolayevich;
ZUBCHIK, B.Ye., red.; DONSKAYA, G.D., tekhn.red.; GALAKTIONOVA,
Ye.N., tekhn.red.

[The "Moskvich-407" automobile; operation, maintenance, and
repair] Avtomobil' "Moskvich-407": upravlenie, obsluzhivanie
i remont. Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo
transporta i shosseinykh dorog RSFSR, 1960. 286 p.

(Automobiles)

(MIRA 13:7)

BRONSHTEYN, L.A., kand.tekhn.nauk; BRUSYANTSEV, N.V., kand.tekhn.nauk;
GRECHINSKAYA, L.T., inzh.; GROZOVSKIY, T.S., kand.tekhn.nauk;
KRAMARENKO, G.V., kand.tekhn.nauk; KRICHINSKIY, Z.A., inzh.;
LEVIN, D.M., kand.tekhn.nauk [deceased]; Prinimali uchastiye:
BEGTEREV, G.N., kand.tekhn.nauk; SHEYNIN, A.M., kand.tekhn.nauk;
SHLIPPE, I.S., kand.tekhn.nauk; NAYDENOV, B.F., inzh. AFANAS'YEV,
L.L., kand.tekhn.nauk, red.; VASIL'YEVA, I.A., red.izd-va; UVAROVA,
A.F., tekhn.red.

[Handbook for automotive transportation] Avtotransportnyi spravochnik. Izd.4., ispr. i dop. Pod obshchei red. L.L.Afanasyeva.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960.

(MIRA 13:12)

819 p.
(Transportation, Automotive--Handbooks, manuals, etc.)

MARENOK, V.F., inzh., red.; GROZOVSKIY, T.S., kand. tekhn.nauk;
KLIMOVA, G.D., red. izd-va; GOL'BERG, T.M., tekhn. red.

[Instructions SN 207-62 for carrying out preventive main-
tenance of construction equipment] Instruktsiya po provede-
niyu planovo-predupreditel'nogo remonta stroitel'stykh ma-
shin SN 207-62. Moskva, Gosstroizdat, 1962. 74 p.

(MIR: 15:11)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po de-
lam stroitel'stva.

(Construction equipment--Maintenance and repair)

MARSHAK, Semen Filippovich; SHASHKOVSKIY, Gennadiy Yuvenal'yevich;
GROZOVSKIY, T.S., red.; GORYACHKINA, R.A., tekhn.red.

[Adjustment of the "Moskvich" automobiles] Regulirovka
avtomobilei "Moskvich." Moskva, Avtotransizdat, 1963. 79 p.
(MIRA 17:2)

GROZNETSKIY, D.P.

Slyudorgorsk muscovite deposit in the Central Urals. Sov.
geol. 6 no.9:143-149 S '63. (MIRA 17:10)

ZOLOTAREVA, O.N., inzh.; GROZUBINSKIY, V.A., inzh.

The OSK-3,0 cleaning and grading machine. Mashinostroenie no.4:94-
96 Jl-Ag '63. (MIRA 17:2)

1. Ukrainskiy nauchno-issledovatel'skiy institut sel'skokhozyayst-
vennogo mashinostroyeniya.

BARABYNSK, Ukraine, Sovietskogo Rely, Vozdukh.

The SK-4y Gt separator for cleaning sugar beet seeds. Trakt.
1 belt Khzmaso no.5179-21 My '64. (MIRA 176)

Ukrainetskiy nauchno-issledovatel'skiy institut sel'skokhozyay-
stvennogo zemlestroyeniya.

S/073/60/C26/001/005/C2:
B004/B054

AUTHORS: Pamfilov, A. V., Lopushanskaya, A. I., and Gru, B. A.

TITLE: Chrome Plating by Asymmetric Alternating Current

PERIODICAL: Ukrainskiy khimicheskiy zhurnal, 1960, Vol. 26, No. 1,
pp. 31-35

TEXT: The authors report on the effect of a change in the sense of current at different ratios between density and duration of cathode- and anode current upon chrome plating. Brass cathodes (0.02 dm^2) were chrome-plated in a bath of 250 g/l CrO_3 and $2.5 \text{ g/l H}_2\text{SO}_4$. Pt or Pb served as anodes. Electrolysis was conducted, for comparison, both with direct current and with alternating current generated by a mechanical current reverser; the amperage could be varied in the opposite direction by means of a rheostat. The authors determined the current yield in chromium, the microhardness by a WMT-3 (PMT-3) apparatus, as well as brilliance and porosity of the chrome plating. The data for d.c. agreed with published data. The experiments with asymmetric a.c. were made at 3, 15, 20, 30.

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Chrome Plating by Asymmetric Alternating Current

S/073/60/026/001/005/021
B004/B054

40, and 50°C. The density D_c of the cathode current was between 15 and 100 a/dm². The density D_a of the anode current was varied, likewise the ratio $t_c:t_a$ of the times during which the specimens were connected as cathode (t_c) or anode (t_a). Table 1 gives the current yields at different $D_a:D_c$ and $t_c:t_a$ at 40°C [Abstracter's note: partial reproduction]

D_c	D_a	Current density, a/dm ² Direct current			$t_c : t_a$
		0.88:0.12 sec (7:1)	0.90:0.06 sec (15:1)	0.66:0.02 sec (33:1)	
15	7.5	10.2	0	0	16.0
15	1.5	10.2	14.2	9.1	10.4
15	0.25	10.2	10.0	9.3	9.2
25	12.5	12.3	0	0	0
25	5.0	12.3	0	3.1	5.3
25	1.25	12.3	9.2	13.3	13.5
35	17.5	17.6	0	13.5	21.3

Card 2/4

Chrome Plating by Asymmetric Alternating
Current

S/073/60/026/001/C05/021
B004/B054

D_c	D_a	0.88:0.12 sec (7:1)	0.90:0.06 sec (15:1)	0.66:0.02 sec (33:1)
35	7.0	17.6	13.1	23.5
35	1.75	17.6	28.8	26.7
50	25	20.0	0	13.4
50	5	20.0	15.6	18.3
50	0.85	20.0	17.8	19.2
75	37.5	24.7	3.4	21.2
75	7.5	24.7	27.3	33.2
75	1.25	24.7	35.3	31.8
100	50	28.0	4.3	20.8
100	10	28.0	23.7	30.2
100	1.6	28.0	31.1	26.9
				28.1

Hence, it follows that the current yield can be increased by varying $D_a : D_c$ and $t_c : t_a$. Microhardness behaves similarly. At constant $t_c : t_a$, there are certain $D_a : D_c$ at which the microhardness of chrome plating is higher than with d.c. Appearance and brilliance of a.c. chrome plating were

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Chrome Plating by Asymmetric Alternating
Current

S/073/60/026/001/005/021
B004/B054

better than with d.c., especially at high current densities. At lower temperatures (3 and 15°C), the a.c. yield was lower than the d.c. yield. A superposition of sinusoidal a.c. over d.c. had no effect at more than 500 cycles per second. At frequencies between 15 and 160 cycles and a certain ratio between d.c. and a.c., an improvement in quality and a slight increase in current yield were obtained. L. Ya. Bogorad, A. P. Popkov, and A. T. Vagramyan are mentioned. There are 2 figures, 3 tables, and 8 Soviet references: 1 US, 2 German, and 1 Rumanian.

ASSOCIATION: Chernovitskiy gosudarstvennyy universitet, laboratoriya fizicheskoy khimii (Chernovtsy State University, Laboratory of Physical Chemistry)

SUBMITTED: June 26, 1958

Card 4/4

ZHOMOV, Yu. (UA3FG); LEGOTSKIY, L. (UW3XX); VARAKSIN, A. (Gagra);
GROZNYY, V. (UQ2CS)

Short radio waves. Radio no. 9:12-13 S '64. (MIRA 17:12)

Byzov, V. V., Goryainov, V. V., Gulyaev, F. F.
Polymer polyarylamide as a brightener in zinc plating. Vest.

Metall, No. 10, 1965. (MIRA 18:10)
Kievnostr. 43 no. 7, 65-67 JI '65.

KUZUB, V.S.; GRU, B.A.

Bright zinc plating from an acid bath. Zhur. prikl. khim. 36
no.8:1782-1784 Ag '63. (MIRA 16:11)

1. Lisichanskiy filial Gosudarstvennogo nauchno-issledovatel'-
skogo i proyektchnogo instituta azotnoy promyshlennosti i produktor
organicheskogo sinteza.

ACCESSION NR: AP4040469

S/0226/64/000/003/0029/0031

AUTHOR: Kuzub, V. S.; Gru, B. A.; Sokolov, V. K.

TITLE: Obtaining lead powder by cementation

SOURCE: Poroshkovaya metallurgiya, no. 3 (21), 1964, 29-31

TOPIC TAGS: lead, lead powder, lead powder manufacture, lead cementation, lead powder cementation

ABSTRACT: A process for obtaining lead powder by cementation on copper or its alloys in an aqueous solution of thiourea, lead nitrate, and organic (tartaric or citric) acid has been developed. Satisfactory results were obtained with an aqueous solution of 5—8 g/dm³ lead nitrate, 38—42 g/dm³ thiourea, 20—30 g/dm³ tartaric acid, and 1.8—2.2 pH at 19—25°C. Copper or brass submerged for 1 hr were covered with a solid layer of lead 1 μ thick. With prolonged cementation the layer became loose. The powder contained 90—96% lead and 0.2—2.6% sulfur. The average particle size was 50—70 μ and the bulk density was 28 g/cm³. Changes in the concentration of citric acid from 5 to 30 g/dm³ and lead nitrate from 1 to 5 g/dm³ had no effect on the emf.

Card 1/2

ACCESSION NR: AP4040469

Thiourea added in an amount of 10—35 g/dm³ shifted the potential by more than 400 mv to negative values, thereby intensifying the process of cementation. Orig. art. has: 2 figures.

ASSOCIATION: Lisichanskiy filial GIAP (Lisichanskiy branch.GIAP)

SUBMITTED: 27Aug63

ENCL: 00

SUB CODE: MM

NO REF SOV: 011

OTHER: 001

Card 2/2

GRUAT, J.; COMIER, J.; NOUGARO, J.

A systematic investigation of sheet piling under the foundation of weirs.
In French. p. 347.

ARCHIWUM HYDROTECHNIKI. (Polska Akademia Nauk. Instytut Budownictwa
Wodnego) Warszawa, Poland. Vol. 5, no. 3, 1958.

Monthly list of East European Accessions Index (EEAI), LC, Vol. 8, no. 6,
June 1959
uncla.

GRUAT, J., dr. ing.

Studying some problems concerning water chamets by electric analogy.
Vodoprivreda Jug 2 no.7/8:199-200 '59. (EEAI 10:1)

1. Hidraulicka laboratorijsa, Tuluza. [Toulouse]
(Reservoirs) (Differential equations)
(Hydraulics)

KRICHMAR, S.I.; ORUBA, A.S., U.S.S.R. MIRRA, 1963.

Chromatographic method for determining the acetylene content
of gases of nitrogen fertilizer plants. Khim. prom. no.10:
754-756 O '63. (MIRA 17:6)

KHARAKHASH, V.G., inzh.; YAROZHEVSKIY, S.A., inzh.; ALEXSEYEV, N.N.,
inzh.; KOLESNIK, N.A., inzh.; FRIDMAN, O.A., inzh.; GRUBA, A.I.,
inzh.; GRIN', L.V.; PETRAKOV, V.I.

Electric insulation coatings on the inside surface of battery
boxes of electric mine locomotives. Ugol' Ukr. 10 no. 1:
31-33 Ja '66. (MIRA 18:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut plasticheskikh
mass.

CZECHOSLOVAKIA/Human and Animal Physiology (Normal and Pathological) Metabolism. Vitamins.

T

Abs Jour : Ref Zhur Biol., No 6, 1959, 26291

Author : Masek, J., Gruba, F.

Inst :

Title : Ceskosl. hyg., 1958, 3, No 2-3, 80-88

Abstract : It was shown that 70 mg of vitamin C daily is quite sufficient for a healthy adult, and 80 mg of C daily produces complete saturation of the organism. In heavy work, pregnancy, and under conditions of stress, the indicated amount of D should be increased.

Card 1/1

- 17 -

BOGDAL, M.; GRUBA, F.

Secretion of vitamin C by the rat liver. Vop.pit. 19 no.445-48
Jl-Ag '60. (MIRA 13:11)

1. Iz Instituta pitaniya Cheskoslovatskoy Respublika (Praga).
(ASCORBIC ACID) (LIVER)

BOGDAL, M.; GRUBA, F.

Relationship between vitamin C and the bile and its level in
the blood and liver. Vop. pit. 19 no. 5:42-46 S-0 '60.
(MIRA 14:2)

1. Iz Instituta pitaniya, Praga.
(ASCORBIC ACID) (BILE) (LIVER)

BAXA, J.; GRUBA, G.; KUBICZKOVA, H.; VESELY, V.

Oil oxidation. Part 2: Oxidation process and products. Ropa
a uhlie 5 no.1:7-11 Ja '63.

1. Katedra chemie a technologie ropy, Slovenska vysoka skola
technicke, Bratislava.

GEYER, V.G., prof., doktor tekhn. nauk; GRUBA, V.I., inzh.

Improvement and design of the suction system for hydraulic conveying units. Ugol' 36 no.9:36-40 S '61. (MIRA 14:9)

1. Donetskiy politekhnicheskiy institut.
(Hydraulic conveying)

TIMOSHENKO, G.M.; GRUBA, V.I.; LOGVINOV, N.G.; PERMYAKOV, N.G.; SLAVUTSKIY,
S.O.; SHMORIN, M.Ya.

Automation of technological processes in hydraulic mining. Ugol'
39 no.9:37-42 S '64. (MIRA 17:10)

1. Donetskij politekhnicheskiy institut (for Timoshenko, Gruba,
Logvinov). 2. Ukrainskiy nauchno-issledovatel'skiy institut gidro-
dobychi ugliya (for Permyakov). 3. Gosudarstvennyy proyektno-kon-
struktorskiy institut avtomatizatsii rabot v ugol'noy promyshle-
nosti (for Slavutskiy). 4. Vsesoyuznyy nauchno-issledovatel'skiy
i proyektno-konstruktorskiy institut dobychi ugliya gidravlicheskim
sposobom (for Shmorin).

GRUBAC, Milenka, dr.

KOSTIC, Petar, doc. dr.; GRUBAC, Milenka, dr.

Terapija trihomonadnog kolpita spiroseptom. Med. glasn. 8 no.
3-4:120-125 Mar-Apr 54.

1. Ginekolosko-akuserska klinika Medicinskog fakulteta u Beogradu
(upravnik prof. dr. S.Tasovac)

(TRICHOMONIASIS,

*vagina, ther., acetarsone deriv.)

(ACETARSONE, ther. use

*trichomoniasis, vaginal)

(VAGINA, dis.

*trichomoniasis, ther., acetarsone deriv.)

MЛАДЕНОВИЋ, Драгомир; СУЛОВИЋ, Вожин; ГРУБАЧ, Милена

Atonic hemorrhage during and after labor. Srpski arh. celok.
lek. 83 no.9:937-946 Sept 55.

1. Akusersko-ginekoloska klinika Medicinskog fakulteta u Beogradu.
Upravnik: Sinisa Tasovac.

(LABOR, hemorrh.
etiol. & ther. (Ser))

(HEMORRHAGE, in pregn.
in labor, etiol. & ther. (Ser))

MILOSEVIC, Bajljkna; IAZIC-MATIC, Marija; GRUBAC, Milena

Uterine myoma in pregnancy. Srpski arh. celok. lek. 87 no.2:144-155
Feb 59.

1. Ginekolosko-akuserska klinika Medicinskog fakulteta u Beogradu
Upravnik: prof. dr Sinisa Tasovac.

(PREGNANCY, compl.

leiomyoma of uterus (Ser))

(LEIOMYOMA, in pregn.

uterus (Ser))

(UTERUS NEOPLASMS, in pregn.

leiomyoma (Ser))

LAZIC-MATIC, Marila, dr.; DJUKIC-TADIC, Mirjana, dr.; GRUBAC-VUKOTIC, Milena, dr.

Uterine abnormalities in pregnancy. Med. glasn. 13 no.5:270-274 My '59.

1. Ginekolosko-akuserska klinika Medicinskog fakulteta u Beogradu.
(PREGNANCY compl.)
(UTERUS abnorm.)

LAZIC, Marija; CEMERIKIC, Mihailo; GRUBAC-VUKOTIC, Milena

History of a lithopedion. Srpski arh. celok. lek. 89 no.11:1335-1338
N '61.

1. Ginekolosko-akuserska klinika Medicinskog fakulteta Univerziteta
u Beogradu Upravnik: prof. dr Sinisa Tasovac.

(FETUS)

S

САНДУЧИКИ, ЈУ.

Use of antiaircraft rockets; construction of antiaircraft rockets,
their power and guidance. p. '01. ВІДНОВЛЕНІ ГЛАСНИК. Београд.

Vol. 3, No. 7 July 1955

SOURCE: East European Accessions List, (EEAL), Library of
Congress, Vol. 4, No. 12, December 1955

GRUBACEVIC, P.

"Antiaircraft defense of tank units and motorized columns."

p. 807 (Vojno-Tehnicki Glasnik) Vol. 5, no. 11, Nov. 1957
Belgrade, Yugoslavia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

Antonowicz, T.

Control of the firing of independent antiaircraft artillery. n. 52.
(GLASHIK, Vol. II, No. 2, Feb. 1957)

SO: Monthly List of East European Accessions (EEAL) LC Vol. 6, No. 12, Dec. 1957
Uncl.

42052

Y/010/62/000/011/001/001
D016/D106

6/12/00

AUTHOR: Grubacevic, Pero, Lt. Col. of Artillery

TITLE: Modern equipment for fire control of the SPAA

PERIODICAL: Vojnotehnicki glasnik, no. 11, 1962, 839-847

TEXT: The author describes the theodolite-stereomat equipment used by SPAA units in fire control and explains the data-computing process of the stereomat. Some of the material discussed was published in the "Vojni glasnik", no. 2, 1957 under the title "Kontrola gadjanja SPA artiljerije". [Fire control of SPA artillery]. The theodolite-stereomat equipment which is widely used by SPAA units in fire control is superior to the cinetheodolite, since it allows computation of data on the deviation of the point of burst already during firing. Such theodolite-stereomat equipment consists of two theodolite stations and a special electronic computer, the stereomat. The first theodolite station, usually located in the immediate vicinity of the firing guns consists of (1) a theodolite, similar in appearance and equipment to the T90 device of the F90 command computer; (2) distribution box with connections to the second theodolite station,

Card 1/3

Modern equipment for fire control

Y/010/62/000/011/001/001
D016/D106

the power source and the stereomat; (3) 110-v dc power unit or transformer if power is provided by the general network and (4) conductors. The second theodolite station, located at the other end of the topographically precisely calculated distance of 2-4 km, consists of (1) theodolite; (2) photocell, fitted to the registering telescope with amplifiers on the theodolite and in the distribution box; (3) comparator for reading the data on the theodolite recording tape; (4) power source for feeding the theodolite with 110-v dc and the photocell with 220 v, 50 cps ac or a transformer if power is supplied by the network and (5) conductors. The stereomat fed by 220 v, 50 cps ac is located near the first theodolite station and has a comparator-telephone for the transmission of data from the second theodolite station. In addition to the semi-automatic target observation equipment by direction and angle and the aiming telescope, identical to the T90 equipment, the theodolites have special recording devices, pantographs, and equipment for printing data from the recording tape. If the first theodolite station is about 50 m from the firing gun, the stereomat will compute the deviation of the points of burst either in a horizontal coordinate system or in an oblique coordinate system which is drawn through the end of the shell trajectory and can be considered as a rectilinear coordinate system. If the first

Card 2/3

Modern equipment for fire control

Y/010/62/000/011/001/001

D016/D106

theodolite station is over 50 m from the firing gun, the stereomat will determine the components of the deviation from the points of burst in relation to the location of the gun and not in relation to a fixed point. The maximum deviation determined by the stereomat is 300 m. There are 13 figures. [Abstracter's Note:
PAA = antiaircraft artillery; "S" unexplained.] X

Card 3/3

GRIBANOV, A.I.

Free path length of electrons in liquid and amorphous conductors
Zhur.tekh.fiz. 26 no.8:1651-1656 Ag '56. (MLRA 9:11)
(Electrons) (Metals)

GRUBANT, V.N.; RUDAYEVA, A.V.

Some new data on the snakes of Armenia. Izv. AN Arm. SSR. Biol. i
sel'khoz. nauki 9 no.9:63-69 S '56. (MLRA 9:11)

1. Muzei dervinizma Khar'kovskogo gosudarstvennogo universiteta imeni
A.M.Gor'kogo.
(ARMENIA--SERPENTS)

DOKUMOV, St.; GRUBCHEV, V.

Gynecography in various endocrine syndromes. Suvr. med. 13
no.3:56-63 '62.

1. Iz Katedrata po endokrinologii i bolnesti na obmianata
pri ISUL [Institut za spetsializatsiya i usuvurshenstvuvane
na lekarite] (Rukovod. na katedrata Iv. Penchev) i Katedrata
po rentgenologii i radiologii pri ISUL [Institut za spetsiali-
zatsiya i usuvurshenstvuvane na lekarite] (Rukovod. na katedrata
dots. G. Khadzhidekov).

(ENDOCRINOLOGY) (UTERUS)

GRUBE, ALEXANDER EDUARDOVICH

Stanki i instrumenty po derevoobrabotke. Dop. v kachestve uchebnika dlia lesotekhn, vuzov. Moskva, Goslesbumizdat, 1949. v. 2. illus.

Woodworking machinery and instruments.

DIC: T9850.078

SO: Manufacturing and Mechanical Engineering in the Soviet Union. Library of Congress, 1953.

ZHELTYKHIN, D.V., dots.; NIKITIN, V.M., prof., red.; GRUBE, A.E., prof., red.;
GUBIN, M.M., prof., red.; GOzman, M.S., tekhn. red.

[S.M.Kirov Academy of Lumbering in Leningrad; a handbook]
Leningradskaya ordena Lenina lesotekhnicheskaya akademiia imeni
S.M.Kirova. Spravochnik. Leningrad, Izd. nauchno-issl. sektora,
1956. 36 p. (MIRA 11:11)

1. Russia(1923- U.S.S.R.) Ministerstvo vysshego obrazovaniya.
(Leningrad--Lumbering--Study and teaching)

GHUBB, A.I., doktor tekhn. nauk.

Basic problems in introducing automatic control in mechanical
woodworking. Mauch. trudy Len. lesotekh. akad. no.761.1-9 '57.
(Automatic control) (Woodworking machinery) (MIRA 11:4)

GMUEN, A.E., doktor tekhn. nauk.

Automatic production lines for machining chairs. Mach. trudy Len.
lesotekh. akad. no.76:10-14 '57. (MIRA 11:4)
(Woodworking machinery) (Chairs)

GRUBE, Aleksandr Eduardovich

[Woodworking machinery] Derevorezhhushchie instrumenty. Izd.2.,
perer. i dop. Moskva, Goslesbumizdat, 1958. 472 p. (MIRA 12:4)
(Woodworking machinery)

NEKHAMKIN, Natan Osipovich, dots., kand. tekhn. nauk; GRUBE, A.E., prof., doktor tekhn. nauk, retsenzent; RODIONOV, S.V., dots., kand. tekhn. nauk, otv. red.; KUZNETSOVA, L.Ya., red.; URITSKAYA, A.D., tekhn. red.

[Precision in woodworking and how to achieve it] Tochnost' obrabotki drevesiny i ee obespechenie; lektsiiia po kursu "Tekhnologija izgotovlenija iz drevesiny," dlja studentov fakul'teta mekhanicheskoi tekhnologii drevesiny. Leningrad, Vses. zaochnyi lesotekhn. in-t, 1961. 40 p.
(Woodwork) (MIRA 14:10)

GRUBE, Aleksandr Eduardovich, doktor tekhn. nauk; GOLUBEVA, T.N., inzh.,
red.; FOMICHEV, A.G., red. izd-va; FREGER, D.P., tekhn. red.

[Ways and trends in the automation of woodworking industries; transcript of a lecture given at the Leningrad House of Scientific and Technical Propaganda for engineers and technical workers of the enterprises and institutions of the woodworking and furniture industry] Puti i napravleniya avtomatizatsii v derevoobrabatyvaiushchei promyshlennosti; stenogramma lektsii, prochitanoi v LDNTP dlia inzhenerno-tekhnicheskikh rabotnikov predpriatii i uchrezhdenii derevoobrabatyvaiushchei i mebel'noi promyshlennosti. Leningrad, Leningr. Dom nauchno-tekhn. propagandy, 1961. 66 p. (MIRA 14:12)

(Woodworking industries) (Automation)

GRUBE, A.E., doktor tekhn.nauk; ALEKSEYEV, A.V., kand.tekhn.nauk

Specific cutting work in the cutting of particle boards. Der.prom.
10 no.2:7-8 F '61. (MIRA 14:3)

1. Leningradskaya lesotekhnicheskaya akademiya im. S.M.Kirova.
(Hardboard) (Woodworking machinery)

GRUBE, Aleksandr Eduardovich, doktor tekhn. nauk, prof.; GOLU.EVA,
T.M., inzh., red.; FREGER, D.P., red. izd-va; GVIITS, V.L.,
tekhn. red.

[Design and construction of hard alloy wood-cutting tools] Kon-
struirovaniye tverdosplavnykh derevorezhushchikh instrumentov;
stenogramma lektsii, prochitanyykh v LDNTP dlja inzhenerno-
tekhnicheskikh rabotnikov predpriatii i uchrezhdenii derevo-
obrabatyvaiushchei i mebel'noi promyshlennosti. Leningrad,
1962. 86 p. (MIRA 15:12)

(Woodworking machinery)

GRUBE, Aleksandr Eduardovich, doktor tekhn. nauk; SANEV, Valentin Il'ich, kand. tekhn. nauk; SHEYNOV, I.I., red.

[Automatic loading and unloading devices of woodworking machines for processing scantling and panel parts] Avtomaticheskie zagruzochnye i razgruzochnye ustroistva k derevoobrabatyvaiushchim stankam dlia obrabotki bruskovykh i shchitovykh detalei; stenogramma lektsii. Leningrad. No.1. 1963. 33 p. (MIRA 17:5)

GRUBE, Aleksandr Eduardovich, prof.; VARAKSIN, F.D., red.;
LYAKHOVICH, Ye.A., red. izd-va; VDOVINA, V.M., tekhn.
red.

[Woodcutting tools with hard alloy plates; design and
operation] Derevorezhushchie instrumenty s plastinkami iz
tverdykh splavov; konstruktsii i ekspluatatsiia. Moskva,
Goslesbumizdat, 1963. 147 p. (MIRA 16:6)
(Woodworking machinery) (Alloys)

GRUBE, Aleksandr Eduardovich, doktor tekhn. nauk; SANEV,
Valentin Il'ich, kand. tekhn. nauk; SHEYNOV, I.I., red.

[Automatic loading and unloading devices for woodworking machines and machine lines designed by the S.M.Kirov Forest Technology Academy; stenographed lecture read at the Leningrad House of Scientific and Technical Propaganda, November 1963] Avtomaticheskie zagruzochnye i razgruzochnye ustroistva k de-revoobrabatyvaiushchim stankam i stanochnym liniyam konstruktsii ITA im. S.M.Kirova; stenogramma lektzii prochitannoi v DNTP v novembre 1963 g. Leningrad, 1964. 30 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Serlia: Derevoobrabatyvaiushchaia promyshlennost', no.2) (MIRA 17:8)

GRUZ, Aleksandr Eduardovich, doktor tekhn. nauk; SANEV, Valentin Il'ich, kand. tekhn. nauk; VARAKSIN, F.D., red.

[Automation of the machining of parts in the woodworking industries] Avtomatizatsiya stanochnoi obrabotki detalei v derevoobrabatyvaiushchei promyshlennosti. Moskva, Izd-vo "Lesnaia promyshlennost', 1964. 540 p. (MIRA 17:7)

USSR/Plant: Diseases - Diseases of Cultivated Plants.

0-3

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30255

Author : Shumakova, A.A., Grube, A.M.

Inst :

Title : The Role of Epicoccum granulatum Penzig in the Infectious Citrus Desiccation Disease Mal Secco.

Orig Pub : Dokl. VASKhNIL, 1957, No 3, 33-39.

Abstract : Investigations of the citrus groves in Batumskiy Rayon have demonstrated that the wide spread of E. granulatum which was separated from plants of lemon, orange, tangerine and other citrus crops mainly inflicted with an infectious drying out of the leaves and branches. The fungus was most frequently encountered in the wood. Several biological peculiarities of E. granulatum were studied together with its interrelation to the fungus Deuterophoma tracheiphila. Growing lemon, tangerine and orange trees were artificially infected with the fungus.

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ACCESSION NR: AT4038163

8/2690/63/005/006/0067/0075

AUTHORS: Grube, A. P.; Rastrigin, L. A.

TITLE: Nonlinear problem of optimal regulation with modulating signal

SOURCE: ANLatSSR. Institut elektroniki i vy*chislitel'noy tekhniki. Trudy*, v. 5, 1963. Avtomatika i vy*chislitel'naya tekhnika (Automation and computer engineering), no. 6, 67-75

TOPIC TAGS: optimal control, nonlinear equation, modulation, noise, control system stability, automatic control theory

ABSTRACT: Iteration in terms of a small parameter (reduced feedback coefficient) is used to obtain a solution for the regulation equation of a controlled object with a quadratic quality function. The iteration process is shown to be rapidly converging and the main linearity of the system comes into play only in the second approxima-

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ACCESSION NR: AT4038163

tion. The influence of noise is analyzed and it is shown that its effect consists in shifting the center of the limit cycle. The constant deviation, which the system has regardless of the action of the extremal regulator employed, is estimated. Orig. art. has: 7 figures and 22 formulas.

ASSOCIATION: None

SUBMITTED: 00 DATE ACQ: 04Jun64 ENCL: 00

SUB CODE: MA, DP NR REF SOV: 005 OTHER: 000

Card 2/2

SOV/84-58-5-35/57

AUTHOR: Grube, G., Senior Radio Operator (Alma-Ata)

TITLE: An Instructive Incident (Pouchitel'nyy sluchay)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 5, p 33 (USSR)

ABSTRACT: In this short letter to the Editor, the author relates an incident with an automatic radiocompass, which registered the passing of a homing beam with a delay of 5 to 8 seconds or even more. The delay was eliminated by changing the frequency. It was found that signals of another transmitter were being received on the former frequency, which affected the indications of the radio compass.

1. Airplanes--Equipment 2. Radio compasses--Performance

Card 1/1

L 20765-65 EWA(k)/EWT(1)/EWT(m)/EFF(c)/EPF(n)-2/MSC(t)/SEC(b)-2
Pr-4/Pu-4/Pb-4 IJP(c)/BSD/ASD(a)-5/AS(mp)-2/AFMDP/ESD(t) GG
ACCESSION NR: AT5000401 S/3119/64/000/001/0073/0088

AUTHOR: Shvarts, K.K., Aluker, E.D., Mecina, I.P., Grube, M.M.

TITLE: Thermal quenching of the x-ray luminescence of some alkali halide crystals

SOURCE: AN LatSSR. Institut fiziki. Radiatsionnaya fizika, no. 1, 1964.
Iony*ye kristally* (Ionic crystals), 73-88

TOPIC TAGS: alkali halide crystal, x-ray luminescence, luminescence activator, thermal quenching, neutron bombardment, ionizing radiation, thermoluminescence

ABSTRACT: This paper constitutes the beginning of a series of papers on the quenching of the luminescence of alkali halide crystals activated by mercurylike ions. The purpose of these investigations was to study quenching processes as a function of the mode of excitation (x, beta and gamma rays, neutrons), type of activator (Tl, Pb, In, etc.), and its concentration. The program also included a study of scintillation. In this paper, the authors studied the temperature dependence of the intensity of steady luminescence, of the flare-up of x-ray luminescence, and the thermoluminescence in the range 100-700K. In order to study the effect of x-irradiation on the state of the activator, the flare-up and the excitation spectrum of the activator cross section were measured. Grown crystals of KCl-Tl, KBr-Tl, KI-Tl, and KI-In were employed.

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Basic assumptions are made concerning the mechanism of quenching of x-ray luminescence, mechanism of transfer of energy to the activator centers, and the nature of the flare-up of luminescence, but the need for additional data is emphasized.
Orig. art. has: 14 figures and 2 tables.

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